ACTIVITY: Optimum Sugar/Casings

PERIOD COVERED: July 27 - August 27, 1984

DATE OF REPORT: August 27, 1984

WRITTEN BY: B. K. Mulherin

OBJECTIVE:

To subjectively evaluate/optimize current casing systems.

To develop new or special casings for new or improved products/processes as requested.

STATUS:

A. Licorice

Subjective evaluation of cigarette models to evaluate the interchangeability of licorice flavor systems continues. Initial subjective evaluations of the 52 percent burley models were by paired comparison. Descriptors used in the initial evaluations were incorporated into a descriptive ballot for further evaluations. Cigarettes are now being smoked by a limited panel using replication of each pair. Licorice flavor systems include block licorice, spray dried licorice, and licorice replacement. Evaluation of Marlboro cigarettes using the Y84-1 blend and the licorice flavor systems is scheduled for testing by the Flavor Development Panel.

Two additional samples of licorice from new suppliers will be evaluated in Louisville for qualification to established analytical specifications. Subjective evaluation of cigarette models incorporating the spray dried sample in the casing system is in progress. Production of cigarette models for subjective evaluation of the "new" block sample will be determined after chemical analyses are completed.

Subjective monitoring of Marlboro B Test Market samples continues. No significant difference was found for soft pack cigarette samples when tested against the current production control. A significant difference was found between flip-top box test and production control.

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B. Humectant Studies/Casings and Aftercuts

The storage study of Saudi Marlboro Lights is scheduled for completion in September. The primary objective of the study was to reduce spotting and staining of cigarettes. Variables tested were a normal aftercut which incorporates the humectants PG and glycerin, and a tropical flavor formulation which did not incorporate PG and glycerin. While spotting and staining were reduced (140° F, 7 days), subjective differences were indicated by the Flavor Development Panel.

Discussions were held with the Senior Staff and Activity Members concerning objectives and direction for evaluation of alternate polyols and increased menthol solubility by manipulating humectants in casings and aftercuts. Clarification of objectives and revision of plans are in progress.

C. Humectant Studies/Whole Leaf Tobacco and Sheet Materials

A completion report on humectant application has not been received from Les Bradshaw of Tobacco Processing.

PLANS:

A. Licorice

Continue monitoring of Marlboro B Test Market	On-going
Summarize POL's evaluating alternate method of application of licorice replacement	Sept. 1984
Continue evaluation of licorice flavor systems	On-going
Analytical evaluation of licorice flavors from new suppliers	Sept. 1984

B. Humectant Studies/Casings and Aftercuts

Complete Saudi Marlboro Lights Storage Study	Sept. 1984
Evaluation of alternate humectants	On-going
Revise study for PG rearrangement/menthol solubility	Sept. 1984

C. Humectant Studies/Whole Leaf Tobacco and Sheet Materials

Complete report on sorbitol replacement of TEG in RL and RCB	Sept. 1984
Review results of humectant application to green leaf tobacco	When report available

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